

L8 ANSWER 1 OF 2 CA COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 109:148379 CA
TITLE: Effect of varying concentrations of linoleic acid on
 α -adrenoceptor responses in spontaneously
hypertensive rats
AUTHOR(S): Crandall, David L.; Goldstein, Brian M.; Lozito,
Robert J.; Lizzo, Florence H.; Cervoni, Peter
CORPORATE SOURCE: Med. Res. Div., Am. Cyanamid Co., Pearl River, NY,
10965, USA
SOURCE: Prostaglandins, Leukotrienes and Essential Fatty Acids
(1988), 33(2), 115-19
CODEN: PLEAEU; ISSN: 0952-3278
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The effect of increased intake of linoleic acid on the α -adrenergic system was assessed by safflower oil supplementation to spontaneously hypertensive rats. Linoleic acid-enriched intake at 5, 15, and 30% by weight of total food intake for 12 wk was associated with a reduction in resting arterial blood pressure, whereas heart rate and heart-to-body weight ratios were similar to control group values. A dose-response anal. to norepinephrine bitartrate administered i.v. indicated a significant reduction in the vascular reactivity to this **.alpha.-adrenergic agonist** in all groups given linoleic acid. Direct assessment of α -adrenoceptor number (Bmax) and affinity (KD) in cardiac sarcolemma with [3H]prazosin indicated that receptor binding properties were not affected by linoleic acid intake. Thus, short-term linoleic acid supplementation in the established hypertensive state may lower blood pressure through effects upon α -adrenergic reactivity in vascular tissue, without associated effects in cardiac tissue.

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:548379 CAPLUS
DOCUMENT NUMBER: 109:148379
TITLE: Effect of varying concentrations of linoleic acid on
 α -adrenoceptor responses in spontaneously
hypertensive rats
AUTHOR(S): Crandall, David L.; Goldstein, Brian M.; Lozito,
Robert J.; Lizzo, Florence H.; Cervoni, Peter
CORPORATE SOURCE: Med. Res. Div., Am. Cyanamid Co., Pearl River, NY,
10965, USA
SOURCE: Prostaglandins, Leukotrienes and Essential Fatty Acids
(1988), 33(2), 115-19
CODEN: PLEAEU; ISSN: 0952-3278
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The effect of increased intake of linoleic acid on the α -adrenergic system was assessed by safflower oil supplementation to spontaneously hypertensive rats. Linoleic acid-enriched intake at 5, 15, and 30% by weight of total food intake for 12 wk was associated with a reduction in resting arterial blood pressure, whereas heart rate and heart-to-body weight ratios were similar to control group values. A dose-response anal. to norepinephrine bitartrate administered i.v. indicated a significant reduction in the vascular reactivity to this **.alpha.-adrenergic agonist** in all groups given linoleic acid. Direct assessment of α -adrenoceptor number (Bmax) and affinity (KD) in cardiac sarcolemma with [3H]prazosin indicated that receptor binding properties were not

09847935blessing

affected by linoleic acid intake. Thus, short-term linoleic acid supplementation in the established hypertensive state may lower blood pressure through effects upon α -adrenergic reactivity in vascular tissue, without associated effects in cardiac tissue.

blessing

09847935blessing

=> d his

(FILE 'HOME' ENTERED AT 12:46:33 ON 21 MAY 2004)

FILE 'REGISTRY' ENTERED AT 12:46:40 ON 21 MAY 2004

L1	0 S DOCOSAHEXANOIC ACID/CN
L2	2 S DOCOSAHEXANOIC ACID
L3	1 S LINOLEIC ACID/CN

FILE 'CA, CAPLUS' ENTERED AT 12:49:35 ON 21 MAY 2004

L4	8 S L2
L5	62808 S L3
L6	2553 S ALPHA ADRENERGIC AGONIST
L7	0 S L6 AND L4
L8	2 S L6 AND L5

blessing

WEST Search History

DATE: Friday, May 21, 2004

Hide?	Set Name	Query	Hit Count
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L11	L9 and l4	7
<input type="checkbox"/>	L10	L9 and l5	11
<input type="checkbox"/>	L9	alpha-2-adrenergic agonist or brimonidine	224
<input type="checkbox"/>	L8	l5 same l6	5
<input type="checkbox"/>	L7	l4 same l6	2
<input type="checkbox"/>	L6	alpha-2-adrenergic agonis or brimonidine	177
<input type="checkbox"/>	L5	linoleic acid	22251
<input type="checkbox"/>	L4	docosahexanoic acid	329
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L3	6294563.pn.	1
<input type="checkbox"/>	L2	6242442.pn.	1
<input type="checkbox"/>	L1	5118493.pn.	1

END OF SEARCH HISTORY